PLANNING & PROGRAMMING DIVISION
PLANNING RESEARCH SECTION
TRAFFIC ANALYSIS UNIT

TAU 3204-A

T.H. 13

S.P. 7001-24

Between the Junction with T.H. 19
East of New Prague to the
Junction with T.H. 282 North of Lydia, Scott County

Prepared: October, 1964

MINNESOTA HIGHWAY DEPARTMENT

U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

STATE OF MINNESOTA

DEPARTMENT HIGHWAY - Planning and Programming

Office Memorandum

TO : T. S. Thompson

DATE: October 15, 1964

FROM : Johan Nygaard

SUBJECT: T.H. 13, S.P. 7001-24, Between the Junction with T.H. 19 East of New Prague to the Junction with T.H. 282 North of Lydia, Scott County

This report is transmitted in response to your August 28, 1964, request for 1988 ADT, DHV and HCADT for the project location as shown on the map on page 2.

For each segment on the map on page 3, the following data are tabulated on pages 4 and 5.

a) Vehicle Type Distribution
b) Total ADT
c) Total Heavy Commercial ADT
d) Total DHV Without Directional Distribution
e) Directional Distribution of DHV

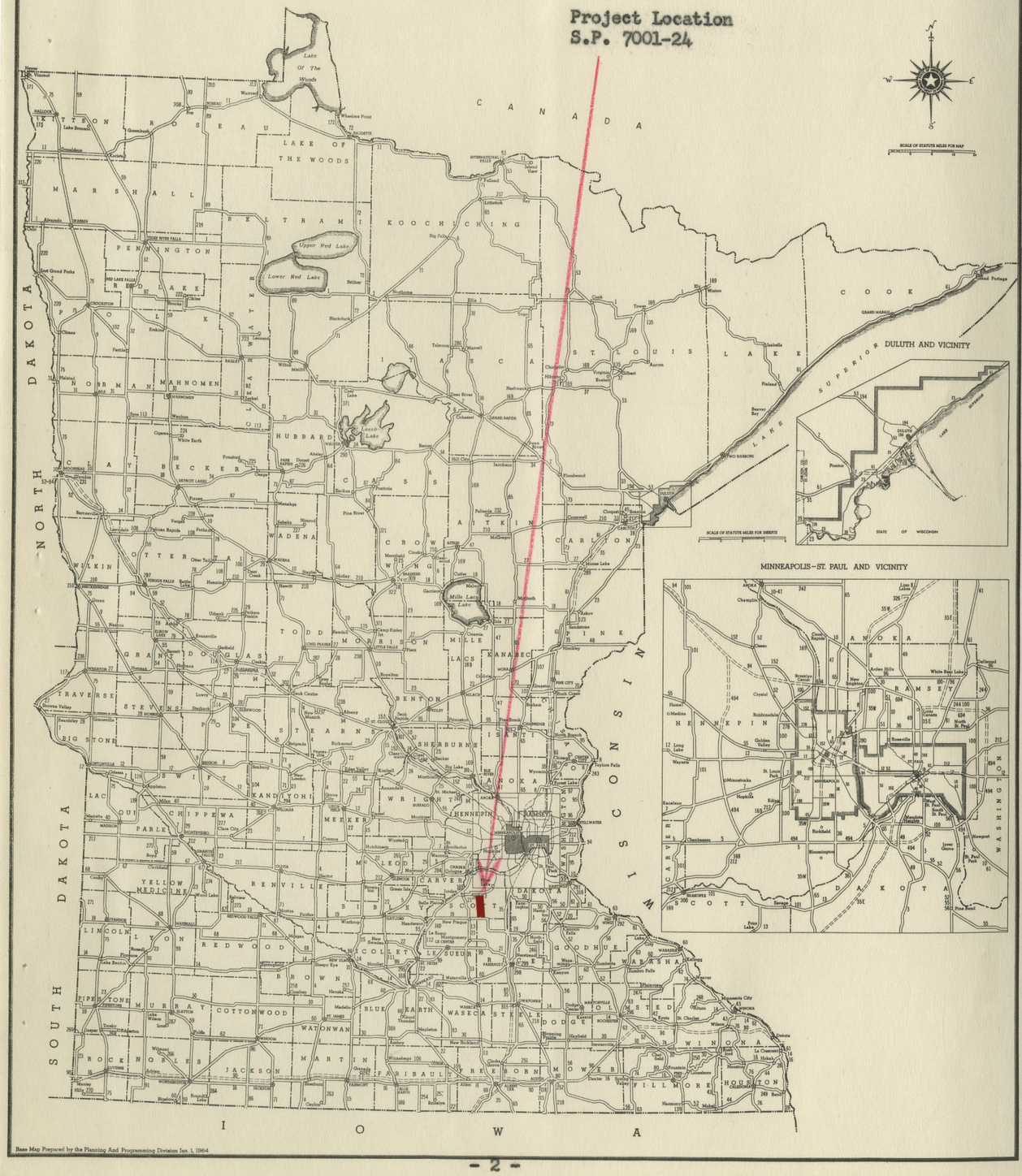
Segment 10 has the highest 1988 ADT within the limits of the request for projected traffic for T.H. 13 between T.H. 19 and T.H. 282, and the 1962 ADT for segment 10 is 940.

The basic data, method and assumptions are presented on page 6.

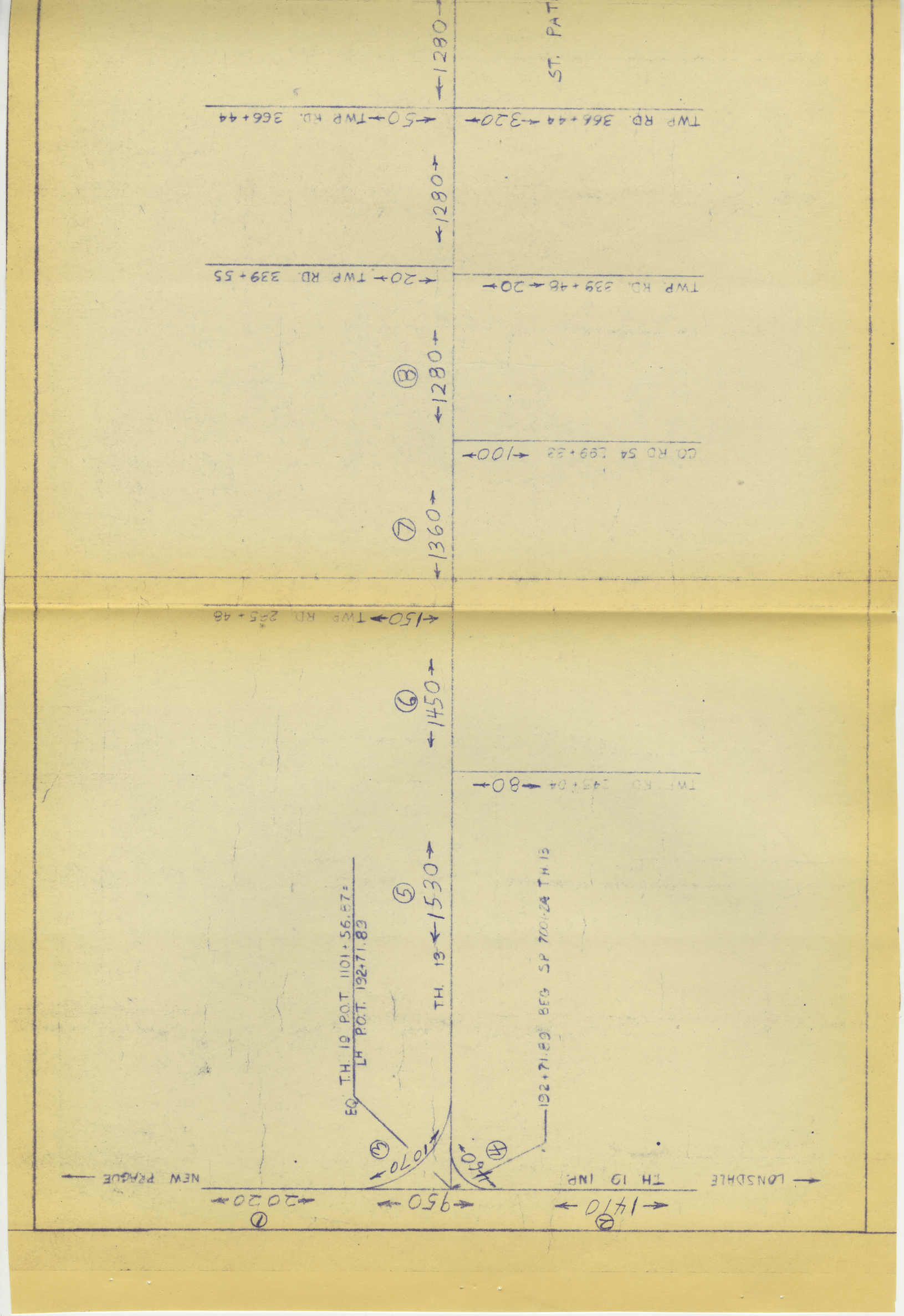
This request was initiated by B. L. Warzala for E. R. Larson, District Design Engineer.

Johan Nygaard

STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
WORK MAP



Base Map Prepared by the Planning And Programming Division Jan. 1, 1964


ST. PAT
1280
TWP RD. 366+44
320
50
TWP RD. 366+44
1280
TWP RD. 339+48
20
20
TWP RD. 339+55
1280
CO RD 54 299+33
100
1360
150
TWP RD 295+48
1450
80
EQ T.H. 19 P.O.T 1101+56.87=
L.H. P.O.T. 192+71.83
1530
TH. 13
192+71.83 BEG SP 7101.24 TH 13
1070
460
NEW PRAGUE
TH 13 INR
LONSDALE
2020
950
1470

T.H. 13

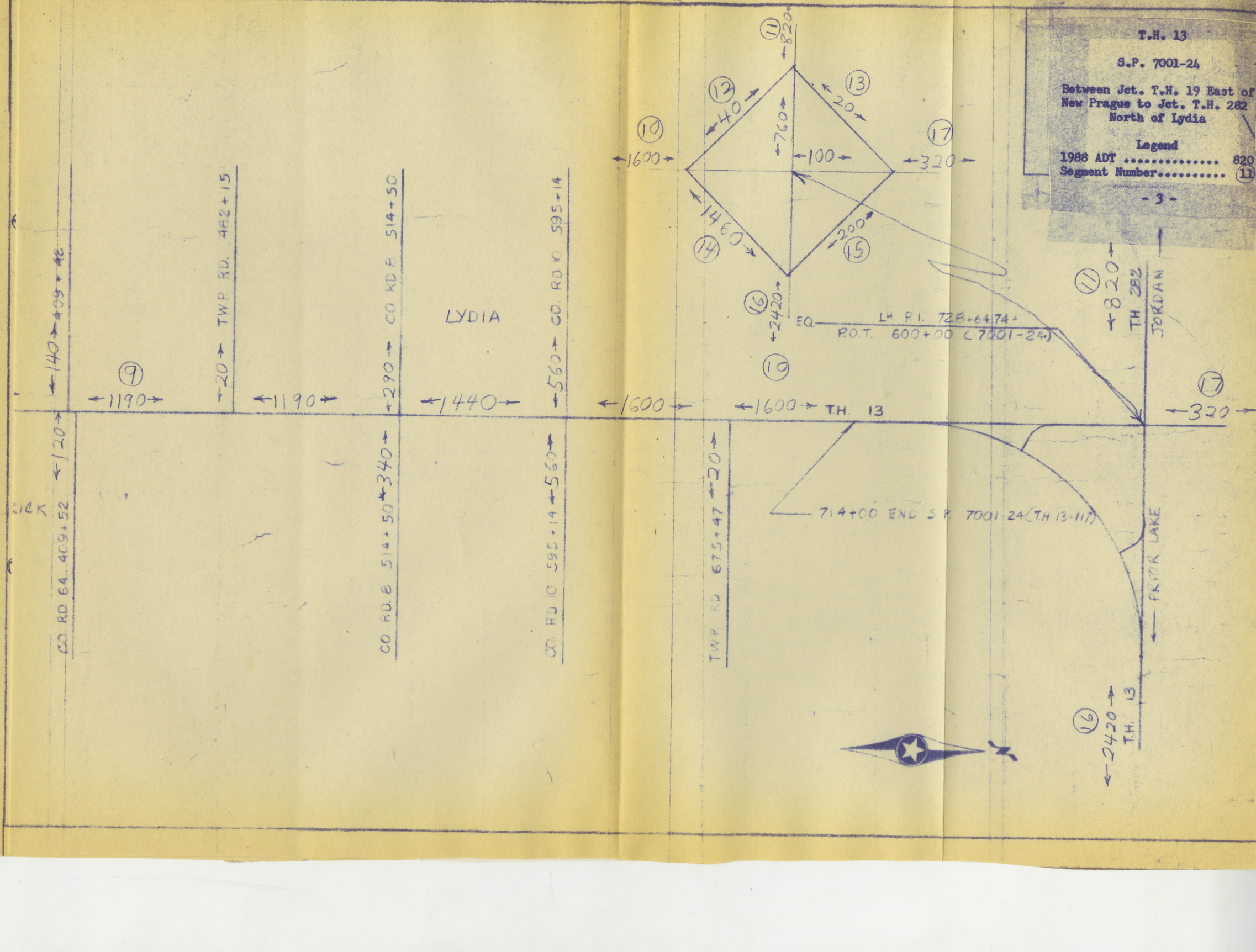
S.P. 7001-24

Between Jct. T.H. 19 East of New Prague to Jct. T.H. 282 North of Lydia

Legend

1988 ADT 820

Segment Number..... (11)



Form 2985 (9-63)

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1988 PART 1 OF 2

FOR

T.H. 13 S.P. 7001-24 LENGTH - MILES

COUNTY Scott LOCATION Between Jct. T.H. 19 East of New Prague to Jct. T.H. 282 North of Lydia

BASED ON

1988 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	1818	1285	933	400	1333	1261	1179	1108	1025	1396	714
1	110	74	72	36	108	102	96	90	84	113	58
2	20	14	13	7	20	19	18	17	16	21	11
3	18	2	17	1	18	18	18	18	18	18	10
4	10	6	6	2	8	8	8	8	8	8	4
5	28	19	18	9	27	27	27	27	27	27	14
6	16	10	11	5	16	15	14	13	12	17	9
TOTAL ADT	2020	1410	1070	460	1530	1450	1360	1280	1190	1600	820
TOTAL H. COMM. ADT	202	125	137	60	197	189	181	172	165	204	106
TOTAL DHV	315	220	167	72	239	226	212	200	186	250	128
DIRECTIONAL DISTRIBUTION	60-40	60-40	60-40	60-40	60-40	60-40	60-40	60-40	60-40	60-40	60-40

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

Form 2985 (9-63)

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1988 PART 2 OF 2

FOR

T.H. 13 S.P. 7001-24 LENGTH - MILES

COUNTY Scott LOCATION Between Jct. T.H. 19 East of New Prague to Jct. T.H. 282 North of Lydia

BASED ON

1988 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 17 AS DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17					
0	35	18	1270	174	2139	278					
1	3	2	103	14	171	23					
2	1	-	19	3	32	4					
3	-	-	18	2	18	4					
4	-	-	8	1	8	2					
5	1	-	27	4	27	6					
6	-	-	15	2	25	3					
TOTAL ADT	40	20	1460	200	2420	320					
TOTAL H. COMM. ADT	5	2	190	26	281	42					
TOTAL DHV	6	3	228	31	378	50					
DIRECTIONAL DISTRIBUTION	60-40	60-40	60-40	60-40	60-40	60-40					

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data, Method and Assumptions

The 1988 ADT for the trunk highway sections are least squares projections of their past 13 years ADT. The 1952, 1957, 1962 and 1988 ADT for the trunk highway sections were studied and compared to the 1952, 1957 and 1962 ADT for each intersecting secondary road to obtain the 1988 ADT for the secondary roads.

Seasonal 16-hour weekday vehicle classification counts were conducted in 1964 for T.H. 19, 0.5 miles N.W. of Lonsdale. They were adjusted to 1964 ADT and projected to 1988 ADT through use of statewide trends by vehicle type to form a basis for the vehicle type distribution for segment 2. The 1988 vehicle type distributions for all the other segments are based on statewide trends applied to classification counts conducted for roads with about the same ADT and travel characteristics as the subject segments. Hourly machine counts recorded in 1962 for segment 10 were related to continuous hourly traffic counts and DHV recorded for T.H. 169 S.W. of Jordan to calculate the DHV for segment 10.